

PHOTOCATALYST WITH TITANIUM DIOXIDE AS BASE MATERIAL AND ITS PRODUCTION

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Abstract

PROBLEM TO BE SOLVED: To provide a photocatalyst being a titanium dioxide forming solid soln. with Nb (V).

SOLUTION: The titanium dioxide containing 0.1-5.0wt.% Nb₂O₅ and having 50-350m²/g specific surface area or the titanium dioxide containing 0.1-5.0wt.% Nb₂O₅ and having a crystalline diameter within a range of 80-250Å exhibit an excellent photocatalytic activity. The photocatalyst is obtained by adding a Nb(V) compd. to titanium sulfate or metatitanic acid and heating at ≤700 deg.C.

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